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Ingineer Support

The following account of engineer support of an advancing army is based on the concrete example of the experience of the 2nd. Shock army in the Volkov front during the breakthrough of the coningrad block between the 12th. and 17th. of January, 1943.

This operation is of considerable interest from an engineer polar of view. The great difficulties presented by the wooded-marshy error winter conditions, as well as the extremely closely built energies were orks and obstacles, placed particular attention on the organical support of the operation. The proper solution of all of these grades demanded the full attention and careful work of the engineer sould the proper support by and the full utilization of the engineer but buring an attack.

During the sixteen months of the blockade of meningrad the to army frequently inflicted heavy blows on the enemy. These start as not of a decisive character but in the long run they disclosed, as large, the enemy's defensive system.

Farticularly is this true of the settive operations of the following of the wolker front in lugust, 1942, which army was able to a considerable extent, the character of the defences of the parable satisfies a setting every grouping. In the area of the attack a read a built, the troops conducted battle training, and the engineer conducted units gained experience in the forming up and action of country aroups and detachments, demblition groups, in the laying of country and so the construction of reads following the advancing arrows in the construction of reads following the advancing arrows in January, 1943.

Operational Situation (Sketch 17 - not included in the transle-can be found on page 117 of the original.) The Mga-Shlusse ourganess group occupied in January, 1943, the eastern shore of the riviews, the southern shore of Lake Ladiga, Lipka, Gontovaya lipka, schye, and Lodva.

The area of the breakthrough of the 2nd. Shock Army extended the southern shore of Lake Ladogam on the right, on the left, to

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boundary with the 8th. Army, which was south of Gaytolovo. The general depth of the enemy's defences in the area Lipka-Marino was 14 lame, and in the direction of Aprausin Corodok, Sinyavino, Dubrovka - 15 kms. The 2nd. Shock Army, being released f om the front reserve, arrive and the sector designated for the breakthrough at the beginning of Jenney, (The area was Lipka-Gaytolovo.) partly exchanging positions, the postal absorbing into its establishment, the units of the 8th. Army divisions holding the sector.

The 2nd. Shock Army was given the assignment of breaking and any the enemy's defences in the area Lipka, Labour Settlement No. L. Siley vino, Gaytolovo, to unite with the troops of the Leningrad From and a were to deliver a simultaneous eastern strike from the western shows of the river reva.

The 8th. Army was given the assignment to deliver a thrust with the right-flanking divisions in the sector (exclusive) Gaytolovo, borone a, along the railway line towards Mga, coordinating the strike with the breakthrough of the 2nd. Shock Army, With its left-flanking division the army had the task of supporting the advancing front and to copy to left flank of the breakthrough.

Characteristics of the Terrain : The area occupied by the Area stellung enemy grouping, was a wooded, marshy plain. In the celone w the area, in a clearing, there was a peat-cutting area, cut by he we conals and excavations, with a road network to move the peat. From the reat-cutting area eight workers; settlements were locate .

South of the peat-cutting area, there lies a rise, with gaite docided drop to the north, but to the south it turne, into a state of rood covered plateau, with many lakes, brooks and streams. All theatr streams did not present obstacles by themselves, but their swampy on the recuired for a crossing special engineer provisions. The swamps, and though they were not drained, were, on the whole, passable to the fit fantry. The woods, in the main coniferous, were small treed on swarm ground. Adequate surfaced and dirt roads gave the enemy the capabile a of manoeuvre from the south and south-west.

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In the middle of January the area was covered with heavy snow, with up to 40 cm. in the woods and up to 20 cm. in the open abeas. The anow had frozen after the December thaw and, on the whole, allowed one movement of troops without skis. The swamp had frozen unevenly; most of it had frozen to a depth of 20 cm., but parts of it, those covered thickets and snow had not frozen at all. The little depth of the fi resented a serious problem for the movement of tanks and artiller and in places, even for the movement of personnel without skie. n the rivers varied from 20 cm. to 50 cm. in thickness, on Lebe I. he average thickness of the ice was 40 cm, which made the movement 11 types of motor transport possible. The road network, besides t ermonent roads, contained a large number of military roads which een built in the summer of 1942; the existing good bridges all one he crossing of the rivers without regard to the ice. The main real ere being maintained by the road-building troops of the Front and rmy.

The weather in January, 1943, was quiet, there were temporary ands from the west and south, there was no snowfall, the temporary arised from -12° to -16° with low visibility. The last made and a law the airforce difficult.

The Enery's Defence. According to the information gather A bypes of reconnaisance the enemy had constructed the following to a tile Mga-Shlusselburg area (see Map 17 - not included in the sea ation - missing in the original)

The forward defended area which had been constructed during to receding battles ran along the southern shore of Lake Ladoga, to orders' settlement No. 8, Contovaya Lipka, Tprtoolova, Forechipe.

The second defended zone followed the southern shore line of andoga, to workers' settlement No. 1, workers' settlement No. 5 Simon settlement Mikhaylovskiy, Silonovo Karbusel'.

Each of the defended zones consisted of a mutually supporting system of centres of resistance and separate fortified positions designed for all around defence. The centres of resistance and the f

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at the crossroads, in settlements, of reserves, and in thick woods. The defensive positions had been site on obvious boundaries, along rive a with steep shores, along the lines of lakes, and swamps, in the approaches and the depths of forests. The areas in front of the forward alge of the centres of resistance and the defended localities, as well as that lying between them, was always open to observation and covered by fire; besides that in the intervals were located submachine games as the owere supported by all types of fire from the depth. Between the defended zones strong points were located (workers settlement Wo. The sesistance and the main defended positions, created fire pockets.

The main affects consisted of heavy and light machine gun live, the bank juns and motars, reinforced by antibank and antipersonnel obstacles under up of cuttings, cleats, embankments and felled trees, wooden and curth walls and fences, mine fields, and snow walls. To protect the afonded localities, the machine gun nests and trenches from applied by a secondaisance patrols and assault groups, the enemy had made external these of booby traps.

The anti-tank defence of the fortified system depended on, in the sixt place, the fire of the supporting artillery from special positions at a distance of 3 to 4 kms; in the second place, on the fire of the enti-tank guns and weapons, as well as the heavy calibre machine guns

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which had been pushed forward and were forming the anti-tank positions; and, in the third place, on aircraft, which could be called upon by the commanders of the ground troops. To cover all eventualties, the anti-tank defence had been strengthened by minefields.

The fortifications of the defended area consisted of one three embrasume wood and earth emplacement with covered blindages, common one gun nests, and artillery and motter positions. The dugouts constituting passages and trenches were full size, and where the ground of allow digging, the enemy had constructed wooden and earth wall assages frequently there were constructed covering fences, work of brush and of a general height of 1.5 meters. Behind the formed are 1 cated, consisting of pits, low wire entanglements, mike and lamethrowers.

As an illustration the characteristics of two centres of remire given in detail:

The centre of reistance facing Lake Ladoga (Lipka) was defend the greater part of one infantry battalion. The lake shore was the overed by antipersonnel obstacles (Sketch 18 - not included in was attom can be found on page120 of the original). The defences of the onthe consisted of dugouts for all the battalion personnel reconstruction many wood and earth emplacements. These emplacements consisted assumption assumption by 2.5 m. and were covered by 24 cm. The dugouts are the emplacements were connected by communication passages with the ocated 30 to 50 m. to the rear. These shelters were frequently the nuclear houses or in the embankments of the Old and New Ladoga Consistents were of reistance also had strong anti-personnel obstacles in the well as in the depth of the system.

In the German defensive system. It lay at the main road connecting with the river Neva, covered the approaches to Sinyavino, the serminate of defence, and was laid out on a height which dominated the surrounding territory. The height was surrounded by swamps which p

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vented the passage of tanks even in winter. The Germans had paid particular attention to the fortifications of the copse. Beardes that, wide minefields and artificial obstacles, the copse was surrounded a wood and earth wall of a height varying between 1.4 and 2.8 m. and occasionally reaching up to 3.3 m, and of a width of 1.5 to 2.6 m. the crest of the wall machine gum emplacements and observation point had been constructed.

The main conclusions which can be drawn from the analysis of all analysis of all analysis of an analysis of an

The winter 1941/1942 the system had not been reinforced by permater resistance resistance and strong points and lamse system of fire, based on enfillade and cross fire by machine and matters and guns. Wide use was being made of artillery fire in the almost uninterrupted zones of anti-tank and anti-personnel observations tructed. The centre of resistance "Kruglaya", for example, and to 6 antitank guns. The garrisons of the centres of resistance and enteres of resistance and defended posts had adequate reserves of food and ammunition so that could operate for a considerable time without re-supply.

2. The destruction of the enemy's coordinated fore system and seachieved by the destruction of a number of large segments of the ence, which included the centres Lipka, copse "Kruglaya" and Slucy Even after the elimination of these points the enemy retained the

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ability to organize "tactical pockets" and to continue opposition for a considerable time.

3. The engineer defences built in the area by the enemy, although they were not of a permanent type, were still a serious obstacle. This special required the preparation of perions demolition and assault groups, before an attack against the defended enemy positions could be launched.

Engineer Support of the Operation

The Front Commander assigned the following tasks to the engineers: participation in the breakthrough of the enemy's front; to cover with obstacles the flanks of our advancing troops; to fortify the captured localities and to lift the mines in that area; the construction of supply and evacuation roads.

The planning of the engineer support of the operation was accomplished by the Front Engineer Commander with the assistance of a Field Headquarters which had been formed from the engineer staff of the Front consisting of the chief headquarters of the Field with three assistants (one each for recommaisance and camouflage, for obstacles, and for supply), and two officers responsible for coordination.

The plan for the operation was worked out as exercise 9, and all the instructions to the troops were issued as "aids" for the conduct of a command post exercise. The participating troops were instructed to camouflage their concentration in the rear by locating in forests and settled localities and by moving at night only.

The engineer plan contained the sum total of all of the preparatory measures taken by all the troops and staffs. The time allowed for the preparation was about a month, during which time much work was done by the engineer troops.

Engineer reconnaisance was conducted by sapper troops from observation posts. Besides that, a small group of sappers participated in the reconnaisance missions performed by the rifle subunits.

After the staff of the Engineer Field Headquarters arrived in the concentration area it collected all the information gathered by the reconnaisance of other troops and on the basis of this prepared a

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sketch of the enemy's defences. This sketch was continuously amended by newly received information.

The preparation of the departure position was made much easier by the utilization of the existing defences. But it was not sufficient to use the existing defences only. It was necessary to supplement these when with new ones, some even having to be removed, and through the remaining passages had to be cut. The formation commanders, not believing that their troops would be capable of preparing the base of operations in one or two nights, sent out three or four days in advance individual subunits with sappers to prepare the forward edge of the base of operations. Furthermore, much work was done during the day, and not enough attention was paid to camouflage, and therefore much movement in the forward area was observed. All this certainly did not assist in hiding the prepartions for the operation.

The road network in the forward areas occupied by the troops was good from east to west and south-west. There were enough bridges across the rivers Naznaya and Chernaya. Several of these were strong enough to allow passage of 60-ton tracked vehicles. The generally swampy chares acter of the area was much more passable in winter than in any other period of the year. The cuiet weather in January also made road conditions more favourable.

The Preparation for the Attack

As a special engineer measure had to be counted the preparation of assault and demblition detachments. The main type was the battalion detachment, but besides these also company detachments were organized. Sappers, which composed the bulk of these detachments, were taken from the personnel of the divisional sapper battalions or from the battalions of the engineer brigades which were attached to the divisions. The average numerical strength of these detachments was 150 men, half of which were sappers. But in practice and depending on the situation, the engineer equipment of the detachments was different.

The composition of a typical assault and demolition detachment is shown in Table 1.

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MLIGENCH TRANSLATE Engineer Suppor					2
Subunit	Specialty (Officers	NCO	E/M	Total
Command Group	Sappers	3	***	1	4.
Recce Group	CH men	673	**	3 ·	3
	Sappers	1	3	1.5	19
	Total	Ļ.	3	19	26
_	Sappers	1.	3	2]	25
	2 teams Ampule throwe	rs	2	4	6
	CH men		-	3	3
	Totel	1	5	28	34.
Assault Group	Sappers	1	3	2 <i>1</i> ;	28
	Rifle Platoon	1	3	21	25
	3 AT Crews	1	3	6	10
	2 teams Ampule throwe	rs 1	2	5	8
	Crew Heavy Mac	hìne	•		
	Guns		1	5	6
	Total	al 4	12	61	77.
Medical Detachme	ent Medical per sonnel		1	2	3
Service Section	Sappers	~	2	ક	10
is a purpose purpose control of the propose purpose and the second final development of the se	Grand Tota	1 9	23	118	<u>.</u> 150.

The engineer equipment of each detechment consisted of: 4 to 6 mine detectors, 8 to 10 pincers, 8 to 12 grapuels, 10 to 18 wirecutting chears, 20 to 25 charges VV of 3 to 5 kg., 20 to 30 bangalore tempedoes VV described descruction of wire entanglements.

the assault detachment, the second company the mine leging squads and the third the road-building detachments. In several battalions two companies were formed into assault detachments and the third company inkknto the mine laying and road-building squads.

The company assault and mine laying detachments had the following composition: 12 to 16 sappers, one rifle squad with light machine guns,

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8 to 10 submachine gunners and 3 antitank weapons.

In the preparatory period the assault and mine clearing detachments conducted many exercises with rifle and tank units on models constructed in the rear areas. Special exercises without riflemen, were conducted in which engineer reconnaisance, techniques of mine lifting, and the exploding of VV charges were practices. Exercises were also conducted with the rifle units in which problems of cooperation were worked out. Some of the realistic training exercises were conducted with live fire and with artillery participation. By the 8th. of January the training of the assault and demolition detachments had been completed and the participating troops were tested by the higher command in controlled exercises.

Sketch 20 (not included in the translation - can be found on page mine.

124 of the original) shows the disposition of the assault and detachments in the battle order of an advancing battalion.

The engineer support for tank units was organized as follows: A company of the engineers - sapper battalion together with the sapper plateon of the tank brigade formed a detachment consisting of 65 to 80 sappers. The detachment had between 2 to 8 mine detectors, up to 26 pincers, between 7 to o5 graphels, 4 wire-cutting shears, and between 30 to 40 standard charges VV of 3 to 5 kg. each.

The d tachment was divided into four groups:

The Reconnaisance Group (10 to 14 sappers) had the task of reconnoitring the paths for the tanks from their departure positions and to ascertain the character of the obstacles for the further movement of targets.

The mine clearing Group (1) to 19 sappers) had the task of preparing passages through the minestelds.

The Escort Group (18 to 30 sappers) had the task of preparing the gastrure position and the route of march to the forward position and to assist tanks at obstacles and in the removal of damaged tanks.

The Support Group (15 to 22 sappers) had the task of preparing the supplies and providing the necessary replacement and supplies to the

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detachment.

For the immediate support of the tank breakthrough regiment a group of 1 officer, 4 sergeants, and 11 to 13 sappers were assigned to each wittank company.

The tank support detachments also conducted daily exercises in over coming obstacles, mine lifting and escorting of tanks. Some of the exercises were conducted with tanks to study problems of cooperation with them.

To secure the flank of the attacking group a defence area was created on the left flank of the 8th. Army which was reinforced by mine fields (consisting of 10,164 enti-tank and 2,865 antipersonnel mines) and wood and earth embankments.

The direction of the work of the engineer group was conducted by visits of the Front Engineer Commander and by officers of the field headquarters of the Front Engineer Troops at the lovation of the work. The Engineer Troops Field Headquarters also had telephone communication and telegraph with the staff of the Second Shock army but this was often damaged and could only be used on occasions. The main means of communication available to the field headquarters of the Engineer troops were the automobile, messengers on foot and skiers. The Field Headquarters also had telephone communication with the staffs of the engineer brigades and with several of the engineer units, but only during the preparatory stage since the limited number of lines did not allow the employment of this means of communication until the beginning of the attack. The engineer brugades did not have a satisfactory means of communication with its units. Only the guards mine laying regiment could receive radio messages.

The ingineer Forces and Equipment

The Engineer forces taking part in the operation were divided between the armies. At the disposal of the Front Engineer Commander there remained one company of the army engineer battalion, four motor pontoon bridge battalions, the staff of the field construction command, a guard mine laying battalion, one platoon of the separate camouflage company,

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two platoons of the separate hydrotechnical company, and the engineer machine park. The Front retained as its reserve two separate divisional sapper battalions and a separate sapper company of a rifle brigade.

Table 2 shows the distribution of the engineer troops among the armies of the Volkov Front.

Name of unit or formation 2nd. Sho	ck Army	Sth. Army	- بهدائن
Separate divisional Sapper Battalions	1.1	L.	
Separate Sapper Companies of Rifle Brigades	3	3	
Separate Sapper Companies of Tank Brigades	4		
Army Engineer Battalions	l	1.	
Engineer Brigades of Special Designation	1	· · · · · · · · · · · · · · · · · · ·	
Separate Engineer Sapper Brigades	1	-	
Separate Motor Engineer Battalions	1	1	
Separate Mine Sapper Battalions	1	***	
Engineer Mine Brigades		Ţ	
Platoons of Separate Camouflage Companies	2	2	- - + + + + + + + + + + + + + + + + + + +
Total Sappers and Engineer Companies	65	32.	

The breakthrough front of the 2nd. Shock Army was approximately 12 km. long, besides the 3 km. which the army held along the shores of Lake Ladoga, it therefore can be said that the army had 5 companies of engineer troops per km. of breakthrough frontage. Such an allotment of engineer troops has to be considered as completely sufficient. The state of training of the sappers was on the whole satisfactory. The engineer units and formations of the Front had many deficiencies and were not trained nearly as well.

The amount of official entrenching equipment was sufficient. The Front Engineer units even had a surplus of these. The position concerning ing special engineer equipment was considerably worse. There was a shortage of explosive devices, of line wire, and of devices to test radio sets; many of the mine detectors did not work because of the lack of dry batteries and special tubes, the generators for the command posts were in bad condition, and there was a shortage of lighting and charging stations.

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The authorized engineer equipment was assembled in two Front and two Army dumps, the latter was located 30 to 40 km. from the front line The supply of engineer ecuipment from Front to Army depots was done by railway and transport, but from the Army depots to the troops, it was done by mobile detachments. This enabled the Army to have a reserve of engineer supplies and material 10 to 12 km. from the front line.

Conclusions

1. Engineer reconnaisance will only give satisfactory results when it is conducted in a unified system in cooperation with all types of ground and air reconnaisance. A special group of officers from the intelligence section of the headquarters should be organized to interpret air photographs and to analyse the information received from ground sources and to combine this information. An engineer officer should be a member of this group.

The commanders of the assault groups and of the leading rifle battalions should be issued not later than two days prior to the attack annotated air photographs or panorama of the forward area of the operation with reference points for artillery, tanks, infantry and sappers, as well as the necessary legends showing the type of terrain, the approaches, obstacles, and defences constructed by the enemy.

- 2. Camouflage discipline of the troops had not reached a satisfactory level up till them, and the engineers and staffs had not paid sufficient attention to problems of camouflage. Due to poor calculation of the time required for marches and delays en route separate columns were still on the orad after daybreak. According to statements by prisoners the attack was not a surprise to the enemy. The garrisons of the defended points were aware of the preparations and they had posted stronger guards and had replenished their battle supplies.
- 3. Road construction on the sector of the breakthrough was on the whole timely and satisfactory as far as the roads leading up to the rear is concerned.
 - 4. The preparation of the protective defences in the base of the

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operations can not be considered as correct. The base of operations ### should be laid out to fulfil the paragraphs of an advance and it show should not become a "storage area" for material for a defence. The base of operations should facilitate the movement forward and should have sets of trenches, running perallel to each other and perpendicular to the front with partial use of constructions designed for defence. Labor commands from the troops which are designated to take over the defence of the area are to be sent forward in time to build these defences. Work on the forward line should be done exclusively at night, andin the immediate vicinity of the enemy only by subunits which are defending the area, and who are familiar with the situation.

mine cleaning detachments were much too large and 5. The assault and did not have enough fire power; mortars and guns were absent, and there was not even an artillery observer. The chemical warfare men, although they were included, had only incendiary ampules. Flame throwers and smoke cannisters had not been provided for. Neglected was the preparation of safeguards to indicate passages through the demolitions. The placing of signs did not assist in finding the passages.; some of the signs were 1 st, some were covered by snow, the location of some passages was forgotten, and hed to be reconnoitred again. Internal administration had also not been organized satisfactorily.

A serious shortcoming in the training of the assault detachments was also the fact that it finished with the practice of the assault in the forward area only. The infantry did not practice at all the battle in the depth of the enemy's defence, and also did not practice the speedy fortification of the captured area. Little attention had been paid to problems of communications and administration. The addition of first aid boxes would have been appropriate at least in the reconnaisance group of the demolition detachments.

6. The organizat on of the Engineer Troop Field Headquarters made close control and direction of the troops possible and should have also been of greater assistance to the troops in helping them to solve their tasks.

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The staffs of the engineer units were poorly trained in work and manocurre under battle conditions. The lack of mechanical means of communications in the engineer units and the insufficient profision of these at brigades further increased the difficulties of direction and control. The despatch of messages by runners often delayed the delivery of documents and instructions and did not allow the commanders of some of the engineer units to react in time to changes in the situation.

7. The units had several entrenching instruments on their table of equipment and furthermore there were several in reserve in the dumps. There were serious shortcomings in the employment of special engineer equipment.

The control of the issue of engineer equipment was handled possible the absence of accounting records on the work sites made it impossible to get a clear picture of the level of employment of engineer tools and equipment.

8. The limited amount of transport available in the Divisional Engineer battalions and the overloading of the divisional transport did not make it possible to have the troops move their engineer equipment with their cum resources. Therefore the placing of the additional requirement on the divisions to move the engineer equipment was unreasonable.

In order not to leave the engineer supplies in the rear the Engineer Army Commander should have had available, under his control, transport to move the necessary ecitipment, regardless of where it had to be moved to. The inability to support the engineers with transport and POL seriously hampered their work.

9. It was found necessary to supply the sappers with cover against bullets and shrapnel while preparing for mine laying. Steel shields (on wheels in summer and on skis in winter) should not have been excluded. Also, it was necessary to work out the distribution of the man-carried equipment between the demolition and assault groups.

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The Action of Engineer Troops during the Bneakthrough

By the 11th. of January, 1997,

On the 12th. of Jamuary, after an artillery preparation, the assault mire lifting detachments following the barrage closely started to their move ahead of our infantry in the fulfillment of our tasks.

The reconnaisance and detachments operating between the workers settlement No. 8 and copse "Kruglaya" encountered 600 to 700 meters in front of the enemy, wire entanglements and other obstacles. After preparing passages through these obstacles the groups continued their advance without meeting any opposition. After having advanced for about 2.5 kms., both groups and the rifle battalion which was following them were caught in a fire trap from 5 well-hidden emplacements on the right flank, from mortar fire in the front and from the left flank, from copse "iruglaya", machine gun fire. Even though the anti-tank guns which were included in the assault group destroyed one fire position all further forward movement of the battalion was halted and it, to-gether with the assault detachment, withdrew to the departure position.

The assault and detachment operating in the direction of copse "kruglaya" advanced under enemy fire for a distance of over one kilometer ahead of the infantry. Operating independently the detachment bypassed copse "Kruglaya" and advance to the Putilovsk highway at the western approaches of the copse where it engaged enemy infantry, which was supported by two tanks. As a result of the battle the enemy infantry withdraw and one tank was destroyed.

The assault and detachment operating to the left of the copse "kruglaya" prepared for battle during the period of the artillery preparation. The reconneisance group, quickly and with determination, started to move towards the enemy defences and soon encountered wood and earth emplacements. Overcoming this obstacle, the

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group continued its movement towards the wire entanglement.

The . group, following the reconnaisance, started to move forward with just as much determination. Reaching the first wall the group enlarged the five passages which had been cut through by the reconnaisance group. On reaching the wire entanglement, the group also made passages through it. Energing from the wire entanglement the group started out in the direction of the earth and wood defended point which was situated about 70 m. to the right, but heavy machine gun fire from this point stopped the group and forced it to dig in. The ampule throwers opened fire against the embrasures but the discharger was soon damaged. By that time the assault group approached and attacked three fire positions. But it was not possible to capture them. Besides this the artillery and machine gun fire on the group increased in intensity and the distance between the assault group and the attacking infantry battalion was about 700 to 800 meters. The assault group commander started to call for infantry support via messenger but only the fifth messenger was able to accomplish his mission. The infantry tried to 1/4 leave the trenches and dugouts but were pinned down by enemy fire. As a result the assault group had to wait for the arrival of infantry until nightfall.

During the night the assault and demolition squads were re-supplied with ammunition and explosives and at 0900 hours in the morning of the second day the detachment started to advance beyond the wire entanglement under heavy enemy fire. At 0945 hours two of our tanks appeared. Our sappers showed them the prepared passages. Following the tanks the infantry started to attack.

The engineer detachments supporting the tanks immediately started to prepare passages to the forward edge of the enemy's defence; the passages through our minefields were checked and occasionally widened, and clearly marked with signs and lanterns. The tanks, consequently, crosses our minefields without a mishap, except for one instance when the tanks, despite the signs and posters did not use the cleared passages.

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Much more difficult to solve was the problem of supporting our tanks in the depth of the energy the once mile in the forward defende zone the sappers had been able to guide the tanks and point out obstacles and difficult locations, thereby directing them to the better passages. This was not possible in the enemy's depth. In the first plant place, as is proper, the tank commanders did not point out to the sappers the direction in which they intended to move, and, in the second place, the tanks pushed ahead and began to operate independently without the assistance of the sappers. If the tanks had followed the sappers, they would have stood still quite often and would have presented easy targets for the enemy anti-tank artillery. The assistance which sappers can give to tanks consists in that the sappers remove mines which lie in the path of the tank or else check the passability of the area , prod the area aboad of the vehicle, but to dismount and remove the obstacle was not successful. Therefore, shortly after the force start of the battle the main fire/of the sapper groups, without regard to their assigned tasks, was engaged in the evacuation of demaged and bogged down tanks.

The road and bridge-building detachments which had been assigned to the divisions were employed be the divisional engineers in the main as a reserve and for the construction of command posts. The main roads in the area of the 2nd. Shock army were built behind the advancing troops by the engineer battalions of the Front Commander's Reserve. The road work was done by hand and they cooperated in cleaning the route from snow, in several instances the engineer battalions had to clear the main part of the road of mines. The roads leading across the peatfields developed many potholes since they were only thinly frozen over and demanded continuous repair. During the period of the attack altogether 30 ams. of new roads were built in the area of the 2nd. Shock army, as well as 28kms. of roads being repaired, and 3 bridges restored or newly built.

The Portification of the area captured from the enemy proceeded slowly and under pressure of the front command. The divisional and

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regimental commanders did not, on their own, undertake to fortify the newly captured areas.

General Conclusions

The Assault and Mine Clearing Detachments: The action of the sappers of these detachments was decisive. Beside the completion of their assigned tasks - the elimination of enemy obstacles, the making of passages, the defence and destruction of fire points - the engineer troops by their action in the forward element of the infantry showed that they knew how to use not only engineer equipment but also how to fight with the bayonet and the grenade.

The successful activity of the assault and the mine closwing detachments was a result of the careful and full preparatory training which they had received. However it has to be remarked that in several detachments that infantry which had trained with the engineers had not been assigned to it and this reduced the coordinated action within the detachments. In several instances the fire means which had been allotted to the detachments were withdrawn, leaving the supports without adequate fire support.

The sappers after having cut through the passages and evercome the obstacles joined the rifle teams and acted as riflement There were instances where the sappers were coployed as riflemen from the very beginning of the battle. All this resulted in depletion and unnecessary losses in engineer troops.

The fact that our infantry lagged behind our assault and aine clear ing detachments and often less contact with them destroyed the success of their combat action. The suppers, in these instances, of necessity, had to take upon themselves the infantry tasks and suffered considerable casualties on account of it.

Gareful reconnaisance proves to be one of the main conditions for successful action by the assault and mine clearing groups. The commanders of these groups should be given maps of the area 2 to 3 days in advance of the operation showing the type of terrain and the enemy fieldences in the area of the proposed action. This gives the detachment com-

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manders the opportunity to familiarize themselves with the area and to instruct the commanders of the reconnaisance, dumolition, and fire groups.

The Organization off Assault Detachments: The organization of assault and mine clearing detachments used by the 2nd. Shock army must be called too cumbersome. . cering in mind laid down principles, an assaf gult group should consist of four sub-groups: reconnaisance, mine elegring, assault, and fire. Besides that, the commander should have the right to, and use, the opportunity to call for fire from the supporting artillery.

The reconnaisance sub-group is necessary because in the resperatary period it is useless to hope for exhaustive reconnaisance data and a detachment would draw attention on itself. Six sappers are enough for e reconnaisance subgroup in order to send out two pairs of outposts and that's one pair conduct reconnaisance. The work of the reconnaisance group is to be covered by sub-machine gun fire.

The mine clearing group : The composition of this groupfull depos on the mine lifting conditions: three sappers in front inspect the pass age (one ith a mine d tector, to with prodders), following those cond four sappers, the disarm the mines, the group is closed by two riflemen who mark the rassage. Submachine gunners are detailed to lover the work of the sub-group. The part of the sappers can be taken by infantry soldiers who have been trained in engineering.

The assault group: It tall be composed of a squad of sapper-demolition men, two squads of riflemen, armed with light machine guns and sub-machine guns, tank fighters armed with anti-tank weapons, and chemical warfare men for laying smoke screens. The latter can be assigned 🕸 the mine clearing groups. The assault sub-group can be reinforced by tanks and flame throwers or ampule throwers. A sample assault group is shown in Table 3.

Assignment and Specialty

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Recce Minelifting assault Fire

Commenders of sub-groups

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Home mansanon Engineer Support	Marie State of the			2	TOTAL	
Messenger for Commander		6	7	8	146	
Sappers			2			
Riflemen		3	3	3	està	
Submachine Gunners			-	1	400	
AT Rifle Squad					2	
Hoavy Sachine Gun Crew		-		a-	ı	
Morter Platoons			•	-	1-2	
AT Gun Crow				3		
Liebon with artillery			_	3	-	
Chemical len for Smoke Scr	reen			3	*** \$	
		<u></u>	orders	of	the regimental	go:

The assault group will be formed on orders of the regimental commander from personnel of the rifle companies, in whose direction these groups will be operating. The necessary reinforce ments are assigned by the regimental commander. He also states thich ments are assigned by the regimental commander. He also states thich artillery will support the group. Such an organization has the further advantage that the group maintains close connection with the rifle companies from thich they are organized.

A supporting group may be organized in the size of a battalien because a battalien will have no more than two assault groups, and it can fully support these. The supporting group will be responsible, besides fully support these. The supporting group will be responsible, besides giving the assault group the necessary engineer equipment, for organizing the guarding and holding of the marked passages, if these tasks are ing the guarding and holding of the marked passages, if these tasks are not done by special engineer service troops. Considering that the situation may demand the protection of two sub-groups, it is enough in the support group if there are two squads of sappers and one squad of right men.

In those circumstances, when the rifle battalion only organizes one assault group, the companies in whose direction the assault group of does not operate, will have to have independent mine lifting groups. The latter will have the same composition as the mine lifting sub-group of the assault group, and above that, will send out one or two pairs of outposts (Sketch 21 - not included in the translation- can be found on

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page 132 of the original).

The assault groups should be instructed in crawling over walls, the should know how to utilize ground (holes, craters, ditches, vegetation), how to run or crawl from one covered place to another, should know where it is necessary to use smoke.

A var ation of the organization of the battle order of a rifle battalion, having in its establishment assault groups is shown in Shetch 21.

Tank Security detachments: Until now no means of transporting Seppers has been evolved. Sappers on foot cannot protect the battle action of tanks because to limit the speed of movement of tanks to the speed of the leading sapper is not permissible. Even in the sepper plateons of the tank brigades, which have transport on their establishment, this is not suitable for action with tanks on the field of battle. It is absolutely necessary to equip the sappers with armoured transporters.

The sappers should know the course on which the tank subunits would operate. Even this had its place in the current overation, because, even though the sappers lacked transport, they could have, up to a degree, prepared the roads for the movement of tanks in the enemy zone, even if that was only in the forward area up to 1000 metres dep.

In principle the distribution of the tank protection detechments between the reconnaisance, mine lifting, escort and protection groups to the first phase, in the movement forward edge of the enemy, the detachments completed their tasks successfully. If in further operations the sappers were unable to support the tanks, this was only because they lacked the means of transport, thich would have enabled them to move at the same speed as fast-moving armoured vehicles.

The problem of assisting tanks which were bogged down in the swamp and those tracks were jaumed with peat, the problem of breaking them loose and cleaning their tracks was protracted because in order to pull a tank out on to the hard ground the sappers had to bring rollers from a great distance which slowed down the operation considerably. It is necessary to work out a quicker method. As a partial solution, it is

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necessary to carry along prepared supports.

The absolute necessity of quickly fortifying a locality is till not well enough understood by infantry and formation commanders. The method of work with commissions for the preparation of defended zones can only be regarded as adequate in the rear areas of our troops. During an advance into the depth of the enemy's defences the task of consolidating success by quickly assuming a definitive position on the captured objects is the duty of every commander (Infantry Combat Dervice Regulations, 1942, 2nd. part, page 464).

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